


Invitation to Bid

LSUHSC-SHREVEPORT				BIDS WILL BE PUBLICLY OPENED: <div style="display: flex; justify-content: space-between;"> June 03, 2010 02:00 PM </div>	
VENDOR NO. : SOLICITATION : 005558 OPENING DATE : 06/03/2010		Return Bid in Envelope/Labels Provided to: Purchasing Department PO Box 33932 Shreveport LA 71130		BUYER : Parker, Randall BUYER PHONE : 318/675-5291 DATE ISSUED : 05/19/2010 REQ. NO : FISCAL YEAR : 0	
AV Equipment					
INSTRUCTIONS TO BIDDERS					
<ol style="list-style-type: none"> 1. READ THE ENTIRE BID, INCLUDING ALL TERMS AND CONDITIONS AND SPECIFICATIONS. 2. FILL IN ALL BLANK SPACES. 3. ALL BID PRICES MUST BE TYPED OR WRITTEN IN INK. ANY CORRECTIONS, ERASURES OR OTHER FORMS OF ALTERATION TO UNIT PRICES SHOULD BE INITIALIZED BY THE BIDDER. 4. BID PRICES SHALL INCLUDE DELIVERY OF ALL ITEMS F.O.B. DESTINATION OR AS OTHERWISE PROVIDED. BIDS CONTAINING "PAYMENT IN ADVANCE" OR "C.O.D." REQUIREMENTS MAY BE REJECTED. PAYMENT IS TO BE MADE WITHIN 30 DAYS AFTER RECEIPT OF PROPERLY EXECUTED INVOICE OR DELIVERY, WHICHEVER IS LATER. 5. SPECIFY YOUR PAYMENT TERMS: _____ . CASH DISCOUNTS FOR LESS THAN 30 DAYS OR LESS THAN 1% WILL BE ACCEPTED, BUT WILL NOT BE CONSIDERED IN DETERMINING AWARDS 					
BY SIGNING THIS BID, THE BIDDER CERTIFIES:					
<ul style="list-style-type: none"> * THAT NEITHER THIS BUSINESS ENTITY NOR ANY OF ITS EMPLOYEES OR SUBCONTRACTORS IS CURRENTLY LISTED AS EXCLUDED OR SANCTIONED BY EITHER THE DEPARTMENT OF HEALTH AND HUMAN SERVICES, OFFICE OF INSPECTOR GENERAL (OIG) OR THE GENERAL SERVICES ADMINISTRATION (GSA). * THAT IF THIS BUSINESS ENTITY OR ANY OF ITS EMPLOYEES OR SUBCONTRACTORS APPEAR ON EITHER LISTING, MY BID WILL BE REJECTED. * THAT IF AT ANY TIME DURING THE TERM OF THE CONTRACT AWARDED AS A RESULT OF THIS INVITATION TO BID, THIS ENTITY OR ANY OF ITS EMPLOYEES OR SUBCONTRACTORS APPEARS ON EITHER LISTING, MY COMPANY WILL NOTIFY THE CONTRACTING AGENCY, AND THE CONTRACT WILL BE TERMINATED. THE CONTRACTING AGENCY WILL NOT BE LIABLE FOR ANY DAMAGES RESULTING FROM SAID TERMINATION. 					
THE BIDDER FURTHER CERTIFIES:					
<ul style="list-style-type: none"> * COMPLIANCE WITH ALL INSTRUCTIONS TO BIDDERS, TERMS, CONDITIONS, AND SPECIFICATIONS. * THIS BID IS MADE WITHOUT COLLUSION OR FRAUD. * THAT ALL TAXES DULY ASSESSED BY THE STATE OF LOUISIANA AND IT'S SUBDIVISIONS, INCLUDING FRANCHISE TAXES, PRIVILEGE TAXES, SALES TAXES AND ALL OTHER TAXES FOR WHICH THE FIRM IS LIABLE HAVE BEEN PAID. * THAT IF MY BID IS ACCEPTED WITHIN _____ DAYS FROM BID CLOSING TIME, MY FIRM WILL FURNISH ANY OR ALL OF THE ITEMS (OR SECTIONS) AT THE PRICE OPPOSITE EACH ITEM (OR SECTION). * DELIVERY WILL BE MADE WITHIN _____ DAYS AFTER RECEIPT OF ORDER. 					
VENDOR PHONE NUMBER:		TITLE		DATE	
FAX NUMBER:					
SIGNATURE OF AUTHORIZED BIDDER (MUST BE SIGNED)			NAME OF BIDDER (TYPED OR PRINTED)		

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STANDARD TERMS & CONDITIONS	Page 2 of 8
NUMBER : 005558 OPEN DATE : 06/03/2010 TIME: 02:00 PM	BIDDER:
<p>6. DESIRED DELIVERY: 10 DAYS ARO, UNLESS SPECIFIED ELSEWHERE</p> <p>7. TO ASSURE CONSIDERATION, ALL BIDS SHOULD BE SUBMITTED IN THE SPECIAL ENVELOPE, OR USE BID LABEL IF FURNISHED FOR THAT PURPOSE. IN THE EVENT YOUR BID CONTAINS BULKY SUBJECT MATERIAL, THE SPECIAL BID ENVELOPE SHOULD BE FIRMLY AFFIXED TO THE MAILING ENVELOPE.</p> <p>8. BIDS SUBMITTED ARE SUBJECT TO PROVISIONS OF THE LAWS OF THE STATE OF LOUISIANA INCLUDING BUT NOT LIMITED TO L.R.S. 39:1551-1736; PURCHASING RULES AND REGULATIONS; EXECUTIVE ORDERS; STANDARD TERMS AND CONDITIONS; SPECIAL CONDITIONS; AND SPECIFICATIONS LISTED IN THIS SOLICITATION.</p> <p>9. IMPORTANT: THIS BID IS TO BE MANUALLY SIGNED IN INK BY A PERSON AUTHORIZED TO BIND THE VENDOR (SEE NO.31).</p> <p>10. INQUIRIES: ADDRESS ALL INQUIRIES AND CORRESPONDENCE TO THE BUYER AT THE PHONE NUMBER AND ADDRESS SHOWN ABOVE.</p> <p>11. BID FORMS: ALL WRITTEN BIDS, UNLESS OTHERWISE PROVIDED FOR, SHOULD BE SUBMITTED ON, AND IN ACCORDANCE WITH FORMS PROVIDED, PROPERLY SIGNED (SEE #31). BIDS MUST BE RECEIVED AT THE ADDRESS SPECIFIED IN THE SOLICITATION PRIOR TO BID OPENING TIME IN ORDER TO BE CONSIDERED.</p> <p>12. STANDARDS OR QUALITY. ANY PRODUCT OR SERVICE BID SHALL CONFORM TO ALL APPLICABLE FEDERAL AND STATE LAWS AND REGULATIONS AND THE SPECIFICATIONS CONTAINED IN THE SOLICITATION. UNLESS OTHERWISE SPECIFIED IN THE SOLICITATION, ANY MANUFACTURER'S NAME, TRADE NAME, BRAND NAME, OR CATALOG NUMBER USED IN THE SPECIFICATION IS FOR THE PURPOSE OF DESCRIBING THE STANDARD OF QUALITY, PERFORMANCE, AND CHARACTERISTICS DESIRED AND IS NOT INTENDED TO LIMIT OR RESTRICT COMPETITION. BIDDER MUST SPECIFY THE BRAND AND MODEL NUMBER OF THE PRODUCT OFFERED IN HIS/HER BID. BIDS NOT SPECIFYING BRAND AND MODEL NUMBER SHALL BE CONSIDERED AS OFFERING THE EXACT PRODUCTS SPECIFIED IN THE SOLICITATION.</p> <p>13. DESCRIPTIVE INFORMATION. BIDDERS PROPOSING AN EQUIVALENT BRAND OR MODEL SHOULD SUBMIT WITH THE BID, INFORMATION (SUCH AS ILLUSTRATIONS, DESCRIPTIVE LITERATURE, TECHNICAL DATA) SUFFICIENT FOR LSUHSC TO EVALUATE QUALITY, SUITABILITY, AND COMPLIANCE WITH THE SPECIFICATIONS IN THE SOLICITATION. FAILURE TO SUBMIT DESCRIPTIVE INFORMATION MAY CAUSE BID TO BE REJECTED. ANY CHANGE MADE TO A MANUFACTURER'S PUBLISHED SPECIFICATION SUBMITTED FOR A PRODUCT SHALL BE VERIFIABLE BY THE MANUFACTURER. IF ITEM(S) BID DO NOT FULLY COMPLY WITH SPECIFICATIONS (INCLUDING BRAND AND/OR PRODUCT NUMBER), BIDDER MUST STATE IN WHAT RESPECT ITEMS(S) DEVIATE. FAILURE TO NOTE EXCEPTIONS ON THE BID FORM WILL NOT RELIEVE THE SUCCESSFUL BIDDER(S) FROM SUPPLYING THE ACTUAL PRODUCTS REQUESTED.</p> <p>14. BID OPENING. BIDDERS MAY ATTEND THE BID OPENING, BUT NO INFORMATION OR OPINIONS CONCERNING THE ULTIMATE CONTRACT AWARD WILL BE GIVEN AT THE BID OPENING OR DURING THE EVALUATION PROCESS. BIDS MAY BE EXAMINED WITHIN 72 HOURS AFTER BID OPENING. INFORMATION PERTAINING TO COMPLETED FILES MAY BE SECURED BY VISITING LSUHSC DURING NORMAL WORKING HOURS. WRITTEN BID TABULATIONS WILL NOT BE FURNISHED.</p> <p>15. AWARDS. AWARD WILL BE MADE TO THE LOWEST RESPONSIBLE AND RESPONSIVE BIDDER. LSUHSC RESERVES THE RIGHT TO AWARD ITEMS SEPARATELY, GROUP, OR IN TOTAL, AND TO REJECT ANY OR ALL BIDS AND WAIVE ANY INFORMALITIES.</p> <p>16. PRICES. UNLESS OTHERWISE SPECIFIED BY LSUHSC IN THE SOLICITATION, BID PRICES MUST BE COMPLETE, INCLUDING TRANSPORTATION PREPAID BY BIDDER TO DESTINATION AND FIRM FOR ACCEPTANCE FOR A MINIMUM OF 30 DAYS. IF ACCEPTED, PRICES MUST BE FIRM FOR THE CONTRACTUAL PERIOD. BIDS OTHER THAN F.O.B. DESTINATION MAY BE REJECTED. PRICES SHOULD BE QUOTED IN THE UNIT (EACH,</p>	

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<p>BOX, CASE, ETC.) AS SPECIFIED IN THE SOLICITATION.</p> <p>17.DELIVERIES. BIDS MAY BE REJECTED IF THE DELIVERY TIME INDICATED IS LONGER THAN THAT SPECIFIED IN THE SOLICITATION.</p> <p>18.TAXES. VENDOR IS RESPONSIBLE FOR INCLUDING ALL APPLICABLE TAXES IN THE BID PRICE. LSUHSC AGENCIES ARE EXEMPT FROM ALL STATE AND LOCAL SALES AND USE TAXES.</p> <p>19.NEW PRODUCTS. UNLESS SPECIFICALLY CALLED FOR IN THE SOLICITATION, ALL PRODUCTS FOR PURCHASE MUST BE NEW, NEVER PREVIOUSLY USED, AND THE CURRENT MODEL AND/OR PACKAGING. NO REMANUFACTURED, DEMONSTRATOR, USED OR IRREGULAR PRODUCT WILL BE CONSIDERED FOR PURCHASE UNLESS OTHERWISE SPECIFIED IN THE SOLICITATION. THE MANUFACTURER'S STANDARD WARRANTY WILL APPLY UNLESS OTHERWISE SPECIFIED IN THE SOLICITATION.</p> <p>20.CONTRACT CANCELLATION. THE STATE OF LOUISIANA HAS THE RIGHT TO CANCEL ANY CONTRACT, IN ACCORDANCE WITH PURCHASING RULES AND REGULATIONS, FOR CAUSE INCLUDING BUT NOT LIMITED TO THE FOLLOWING: (1) FAILURE TO DELIVER WITHIN THE TIME SPECIFIED IN THE CONTRACT; (2) FAILURE OF THE PRODUCT OR SERVICE TO MEET SPECIFICATIONS, CONFORM TO SAMPLE QUALITY OR TO BE DELIVERED IN GOOD CONDITION; (3) MISREPRESENTATION BY THE CONTRACTOR; (4) FRAUD, COLLUSION CONSPIRACY OR OTHER UNLAWFUL MEANS OF OBTAINING ANY CONTRACT WITH THE STATE; (5) CONFLICT OF CONTRACT PROVISIONS WITH CONSTITUTIONAL OR STATUTORY PROVISIONS OF STATE OR FEDERAL LAW; (6) ANY OTHER BREACH OF CONTRACT.</p> <p>21.DEFAULT OF CONTRACT. FAILURE TO DELIVER WITHIN THE TIME SPECIFIED IN THE BID WILL CONSTITUTE A DEFAULT AND MAY CAUSE CANCELLATION OF THE CONTRACT. WHERE THE UNIVERSITY HAS DETERMINED THE CONTRACTOR TO BE IN DEFAULT, THE UNIVERSITY RESERVES THE RIGHT TO PURCHASE AN OR ALL PRODUCTS OR SERVICES COVERED BY THE CONTRACT ON THE OPEN MARKET AND TO CHARGE THE CONTRACTOR WITH COST IN EXCESS OF THE CONTRACT PRICE. UNTIL SUCH ASSESSED CHARGES HAVE BEEN PAID, NO SUBSEQUENT BID FROM THE DEFAULTING CONTRACTOR WILL BE CONSIDERED.</p> <p>22.ORDER OF PRIORITY. IN THE EVENT THERE IS A CONFLICT BETWEEN THE INSTRUCTIONS TO BIDDERS OR STANDARD CONDITIONS AND THE SPEICAL CONDITIONS, THE SPECIAL CONDITIONS SHALL GOVERN.</p> <p>23.APPLICABLE LAW. ALL CONTRACTS SHALL BE CONSTRUED IN ACCORDANCE WITH AND GOVERNED BY THE LAWS OF THE STATE OF LOUISIANA.</p> <p>24.EQUAL OPPORTUNITY. BY SUBMITTING AND SIGNING THIS BID, BIDDER AGREES THAT HE/SHE WILL NOT DISCRIMINATE IN THE RENDERING OF SERVICES TO AND/OR EMPLOYMENT OF INDIVIDUALS BECAUSE OF RACE, COLOR, RELIGION, SEX, AGE, NATIONAL ORIGIN, HANDICAP, DISABILITY, VETERAN STATUS, OR A OTHER NON-MERIT FACTOR.</p> <p>25.SPECIAL ACCOMMODATIONS. ANY "QUALIFIED INDIVIDUAL WITH DISABILITY" AS DEFINED BY THE AMERICANS WITH DISABILITIES ACT WHO HAS SUBMITTED A BID AND DESIRES TO ATTEND THE BID OPENING, MUST NOTIFY THIS OFFICE IN WRITING NOT LATER THAN SEVEN DAYS PRIOR TO THE BID OPENING DATE OF THEIR NEED FOR SPECIAL ACCOMMODATIONS. IF THE REQUEST CANNOT BE REASONABLY PROVIDED, THE INDIVIDUAL WILL BE INFORMED PRIOR TO THE BID OPENING.</p> <p>26.IDEMNITY. CONTRACTOR AGREES, UPON RECEIPT OF WRITTEN NOTICE OF A CLAIM OR ACTION, TO DEFEND THE CLAIM OR ACTION, OR TAKE OTHER APPROPRIATE MEASURE, TO IDEMNIFY, AND HOLD HARMLESS, LSUHSC, ITS OFFICERS, ITS AGENTS AND ITS EMPLOYEES FROM AND AGAINST ALL CLAIMS AND ACTIONS FOR BODILY INJURY, DEATH OR PROPERTY DAMAGES CAUSED BY THE FAULT OF THE CONTRACTOR,</p>	

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<p>OFFICERS, ITS AGENTS, OR ITS EMPLOYEES. CONTRACTOR IS OBLIGATED TO INDEMNIFY ONLY TO THE EXTENT OF THE FAULT OF THE CONTRACTOR, ITS OFFICERS, ITS AGENTS, OR ITS EMPLOYEES. HOWEVER, THE CONTRACTOR SHALL HAVE NO OBLIGATION AS SET FORTH ABOVE WITH RESPECT TO ANY CLAIM OR ACTION FROM BODILY INJURY, DEATH OR PROPERTY DAMAGES ARISING OUT OF THE FAULT OF THE UNIVERSITY, ITS OFFICERS, ITS AGENTS OR ITS EMPLOYEES.</p> <p>27. INTERPRETATION OF DOCUMENT: ANY INTERPRETATION OF THE BID OR QUOTATION DOCUMENT WILL ONLY BE MADE BY AN ADDENDUM ISSUED IN WRITING BY THE PURCHASING DEPARTMENT. SUCH ADDENDUM WILL BE MAILED OR DELIVERED TO EACH PERSON RECEIVING A SET OF THE ORIGINAL BID OR QUOTATION DOCUMENTS. LSUHSC WILL NOT BE RESPONSIBLE FOR ANY OTHER EXPLANATION OR INTERPRETATION OF THE DOCUMENTS.</p> <p>28. ACCEPTANCE OF BID: ONLY THE ISSUANCE OF A PURCHASE ORDER OR A SIGNED CONTRACT CONSTITUTES ACCEPTANCE ON THE PART OF LSUHSC.</p> <p>29. ADHERENCE TO JCAHO STANDARDS: WHERE APPLICABLE, LSUHSC IS ACCREDITED BY THE JOINT COMMISSION ON ACCREDITATION OF HEALTHCARE ORGANIZATIONS AND AS SUCH ALL CONTRACTORS, SUBCONTRACTORS, AND VENDORS AGREE TO ADHERE TO THE APPLICABLE STANDARDS PROMULGATED BY THE COMMISSION.</p> <p>30. PREFERENCE: IN ACCORDANCE WITH LOUISIANA REVISED STATUTES 39:1595, A PREFERENCE MAY BE ALLOWED FOR PRODUCTS MANUFACTURED, PRODUCED, GROWN, OR ASSEMBLED IN LOUISIANA OF EQUAL QUALITY. DO YOU CLAIM THIS PREFERENCE? YES _____ NO _____ SPECIFY THE LINE NUMBER (S) _____ SPECIFY LOCATION WITHIN LOUISIANA WHERE THIS PRODUCT IS MANUFACTURED, PRODUCED, GROWN OR ASSEMBLED _____ (NOTE: IF MORE SPACE IS REQUIRED, INCLUDE ON SEPARATE SHEET.) DO YOU HAVE A LOUISIANA BUSINESS WORK FORCE? YES _____ NO _____ IF SO, DO YOU CERTIFY THAT AT LEAST FIFTY PERCENT (50%) OF YOUR LOUISIANA WORKFORCE IS COMPRISED OF LOUISIANA RESIDENTS? YES _____ NO _____ FAILURE TO SPECIFY ABOVE INFORMATION MAY CAUSE ELIMINATION FROM PREFERENCES. PREFERENCES SHALL NOT APPLY TO SERVICE CONTRACTS.</p> <p>31. SIGNATURE AUTHORITY. IN ACCORDANCE WITH L.R.S. 39:1594 (ACT 121), THE PERSON SIGNING THE BID MUST BE:</p> <p>31.1. A CURRENT CORPORATE OFFICER, PARTNERSHIP MEMBER OR OTHER INDIVIDUAL SPECIFICALLY AUTHORIZED TO SUBMIT A BID AS REFLECTED IN THE APPROPRIATE RECORDS ON FILE WITH THE SECRETARY OF STATE; OR</p> <p>31.2. AN INDIVIDUAL AUTHORIZED TO BIND THE VENDOR AS REFLECTED BY AN ACCOMPANYING CORPORATE RESOLUTION, CERTIFICATE OR AFFIDAVIT; OR</p> <p>31.3. AN INDIVIDUAL LISTED ON THE STATE OF LOUISIANA BIDDER'S APPLICATION AS AUTHORIZED TO EXECUTE BIDS. BY SIGNING THE BID, THE BIDDER CERTIFIES COMPLIANCE WITH THE ABOVE.</p>	

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<p>NOTE: ALL ITEMS MUST BE RECEIVED AND INVOICED BY JUNE 29, 2010.</p>	

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UNLESS SPECIFIED ELSEWHERE SHIP TO:					
Line No.	Description			Unit Price	Extended Amount
1	Sony EVID 100 Pan/Tilt/Zoom Camera Specify brand, model bid(if applicable) _____	5.00	EA		
2	Sony RC893/1 RS232C 3m Cable Specify brand, model bid(if applicable) _____	10.00	EA		
3	Innovative Communications Inc. WM-100B Wall Mount Specify brand, model bid(if applicable) _____	5.00	EA		
4	Shure SLX14/93 Wireless Lapel Microphone Specify brand, model bid(if applicable) _____	2.00	EA		
5	Crown CM-31W Ceiling Microphone Specify brand, model bid(if applicable) _____	4.00	EA		
6	Polk Audion OWM3- White Wall Mounted Speaker Specify brand, model bid(if applicable) _____	2.00	EA		
7	Extron DVI 201 TX/RX 60-734-03 DVI Twisted Pair Extender Transmitter / Receiver Set Specify brand, model bid(if applicable) _____	4.00	EA		
8	LG LD450 37" LCD Monitor Specify brand, model bid(if applicable) _____	4.00	EA		

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UNLESS SPECIFIED ELSEWHERE SHIP TO:					
Line No.	Description			Unit Price	Extended Amount
9	Peerless ST650 Wall Mount for 37" LCD Monitor Specify brand, model bid(if applicable) <hr/>	4.00	EA		
10	Sony RMBR300 Remote Control Unit for EVI-D100 Specify brand, model bid(if applicable) <hr/>	2.00	EA		
11	Atlas Sound A35 Amplifier Specify brand, model bid(if applicable) <hr/>	2.00	EA		
12	Shure SCM262 Mixer Specify brand, model bid(if applicable) <hr/>	1.00	EA		
13	Extron MAV Plus 88 AV 60-658EX Video Switcher (8 x 4) Specify brand, model bid(if applicable) <hr/>	1.00	EA		
14	Extron DXP 48 DVI Pro 60-1009-01 Specify brand, model bid(if applicable) <hr/>	1.00	EA		
15	Extron DMP 64 60-1054-01 Audio Switcher / Mixer Specify brand, model bid(if applicable) <hr/>	2.00	EA		
16	Extron DVI DA4 60-922-01 DVI Distribution Amplifier (1 x 4) Specify brand, model bid(if applicable) <hr/>	4.00	EA		

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UNLESS SPECIFIED ELSEWHERE SHIP TO:					
Line No.	Description			Unit Price	Extended Amount
17	Kramer KR-105A 3.5mm Stereo Audio Distribution Amplifier Specify brand, model bid(if applicable) _____	2.00	EA	_____	_____

SONY EVID100

PAN/TILT/ZOOM COLOR VIDEO CAMERA

Camera Specifications	Detail:
Effective Pixels	768 (H) x 494 (V)
Lens	10x Optical Zoom 40x with Digital Zoom f = 3.1 to 31 F 1.8 to 2.9
Lens Value	10x
Minimum Object Distance	100 mm (Wide end) 600 mm (Tele end)
Auto Exposure	Auto Manual Priority AE Exposure compensation Back light Compensation
Shutter Speed	1/4 to 1/10000 s
White Balance	Auto ATW Manual One Push 3200K 5800K
Pan Angle/Speed	Pan: ± 100 degrees Max speed: 300 degrees/sec
Tilt Angle/Speed	Tilt: ± 25 degrees Max speed: 125 degrees/sec
Horizontal Viewing Angle	6.6 to 65 degrees
Resolution Value	470 TV Lines
Picture Effects	Mirror Image Still Image on Field Memory Pastel Image Negative/Positive Reversal Sepia Image Monochrome Image Enhanced Contrast Mosaic Image Vertical Stretch Horizontal Stretch Motion Image on Still Image Continuous Still Image Motion Images on Binaried Still Image After-image Lag of Moving Object
Video Output Specifications	Detail:

Horizontal Resolution 470 TV lines (Wide end)

Minimum Illumination 3.5 lx (F1.8)

S/N Ratio More than 50 dB

Signal System NTSC

General Specifications	Detail:
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Dimensions (W x H x D)	4 1/2 x 4 3/4 x 5 1/4 inches (113 x 120 x 132 mm)
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Weight	1 lb 14 oz (860 g)
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Features	Benefits:
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High Speed, Wide Range Pan/Tilt Head	The EVI-D100 camera moves to a designated position quickly and immediately with one of the highest pan/tilt speeds in its class.
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Quiet Operation	Direct drive motors account for the gear-less structure of the camera, reducing the noise of pan/tilt motion drastically compared to conventional models.
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40x Zoom Ratio (10x Optical + 4x Digital)	Fast and stable auto focus zoom lens reaches 40x zoom for hands free operation
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Built-in Conversion Lens for Wide Angle View (65 degrees)	A newly developed wide-angle lens for wide field of view image capture, make it ideal for use in small-sized rooms.
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Auto Sleep Function	The camera can be set to automatically turn off when not in use after a specified time period.
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Various Picture Effects	Negative/Positive Reversal, Black White (Monochrome Image).
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Six Position Presets with Battery Back-up	An integral back-up battery stores presets of pan/tilt/zoom, focus position, AE mode and white balance mode, even when the camera is powered off.
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Multi-function IR Remote Commander® unit	Easy to use supplied remote commander unit is useful for basic pan/tilt/zoom camera control.
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Fully Controllable Remotely via RS-232C (VISCA)	Control all camera settings and pan/tilt/zoom functions remotely via PC.
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Camera Specifications	Detail:
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Effective Pixels	768 (H) x 494 (V)
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Lens	10x Optical Zoom 40x with Digital Zoom f = 3.1 to 31 F 1.8 to 2.9
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Lens Value	10x
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Minimum Object Distance	100 mm (Wide end)
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600 mm (Tele end)

Auto Exposure

Auto
Manual
Priority AE
Exposure compensation
Back light Compensation

Shutter Speed

1/4 to 1/10000 s

White Balance

Auto
ATW
Manual
One Push
3200K
5800K

Pan Angle/Speed

Pan: ± 100 degrees
Max speed: 300 degrees/sec

Tilt Angle/Speed

Tilt: ± 25 degrees
Max speed: 125 degrees/sec

Horizontal Viewing Angle

6.6 to 65 degrees

Resolution Value

470 TV Lines

Picture Effects

Mirror Image
Still Image on Field Memory
Pastel Image
Negative/Positive Reversal
Sepia Image
Monochrome Image
Enhanced Contrast
Mosaic Image
Vertical Stretch
Horizontal Stretch
Motion Image on Still Image
Continuous Still Image
Motion Images on Binaried Still Image
After-image Lag of Moving Object

Video Output Specifications

Detail:

Horizontal Resolution

470 TV lines (Wide end)

Minimum Illumination

3.5 lx (F1.8)

S/N Ratio

More than 50 dB

Signal System

NTSC

General Specifications

Detail:

Dimensions (W x H x D)

4 1/2 x 4 3/4 x 5 1/4 inches
(113 x 120 x 132 mm)

Weight

1 lb 14 oz (860 g)

Power Requirements

DC 10.8 to 13.0 V

Power Consumption

Max. 13.2 W (at 12 Vdc)

Operating Temperature

0 to 40°C (32 to 40°F)

Storage Temperature

-20 to 60°C (-4 to 140°F)



SLX Wireless System Specifications

SHURE SLX WIRELESS

Sound installations and working bands need powerful wireless tools that can be set up quickly and used fearlessly. Shure's rugged SLX UHF Wireless Systems more than deliver with innovative setup features, exceptional wireless clarity, and legendary Shure microphones. Offering up to 20 compatible systems in a single installation, SLX smoothly integrates into houses of worship, lecture halls, conference rooms, and mobile gear cases.

SYSTEM FEATURES

Auto Frequency Selection

- Locates a clear channel instantly

Auto Transmitter Setup

- Infrared link automatically synchronizes the transmitter and receiver

Shure's patented Audio Reference Companding

- Delivers crystal-clear audio transmission, far superior to conventional wireless technology

RECEIVER FEATURES

- Detachable 1/4 wave antennas
- Backlit LCD
- Rack-mount hardware included
- 1/4" and XLR audio outputs

- Frequency and power lockout
- Volume control on rear of unit
- Rugged metal construction

HANDHELD AND BODYPACK TRANSMITTER FEATURES

- Choice of Shure handheld microphones
- Bodypack works with headworn, lavalier and instrument microphones and cables
- Timed backlit LCD
- Frequency and power lockout

- 2 AA batteries (included) provide 8 hours of continuous use
- 100m (300 ft.) operating range
- Battery fuel gauge

ARCHITECT'S SPEC

The wireless system shall operate in the UHF band between 524 MHz and 865 MHz, with the specific available frequency range being dependent on the user's locale. Effective range of the system, receiver to transmitter, shall be 100 meters (300 ft.), under optimal conditions. Each system shall allow selection of over 960 operating frequencies across 24 MHz of bandwidth in order to avoid RF interference. Optimal frequencies shall be selected automatically, ensuring that individual systems run at their highest level of performance, and that multiple systems in simultaneous use do not interfere with one another.

An infrared signal beamed from the receiver shall be used to synchronize the frequency between the transmitter and the receiver. The process of synchronizing the system shall be simple and instantaneous.

Each transmitter shall be powered by two AA batteries. Transmitters shall have a power on-off/mute switch, as well as a timed backlit LCD showing frequency group and channel, locked/unlocked status, and battery strength. Available transmitters shall include a bodypack for use with guitars, basses, and other electric instruments, as well as lavalier, headset or instrument microphones, and a handheld transmitter for vocals. The bodypack shall include a 3-position switch and the handheld transmitter shall include a 2-position switch to compensate for higher- or lower-gain devices. Both transmitters shall feature an easily accessible infrared port for system synchronization.

The receiver shall have a multi-function display showing group, channel, frequency, transmitter battery strength, and locked/unlocked status. The system shall use diversity technology to improve reception, minimize signal dropouts, and achieve the best possible signal-to-noise ratio. The receiver shall include an audio level meter and an infrared port for system synchronization.

The system shall be the Shure SLX Wireless.

SLX WIRELESS SYSTEM SPECIFICATIONS

SPECIFICATIONS

System

Frequency Range and Transmitter Output Level

Band	Range	Transmitter output
G4	470–494 MHz	30 mW
G5	494–518 MHz	30 mW
H5	518–542 MHz	30 mW
J3	572–596 MHz	30 mW
L4	638–662 MHz	30 mW
P4	702–726 MHz	30 mW
R13	794–806 MHz	20 mW
R5	800–820 MHz	20 mW
S6	838–865 MHz	10 mW
JB	806–810 MHz	10 mW
Q4	740–752 MHz	10 mW

NOTE: This Radio apparatus may be capable of operating on some frequencies not authorized in your region. Please contact your national authority to obtain information on authorized frequencies for wireless microphone products in your region.

Operating Range Under Typical Conditions

100m (300 ft.)

Note: actual range depends on RF signal absorption, reflection, and interference

Audio Frequency Response (+/- 2 dB)

Minimum: 45 Hz

Maximum: 15 kHz

(Overall system frequency depends on microphone element.)

Total Harmonic Distortion (ref. +/- 38 kHz deviation, 1 kHz tone)

0.5%, typical

Dynamic Range

>100 dB A-weighted

Operating Temperature Range

-18°C (0°F) to +50°C (+122°F)

Note: battery characteristics may limit this range

Transmitter Audio Polarity

Positive pressure on microphone diaphragm (or positive voltage applied to tip of WA302 phone plug) produces positive voltage on pin 2 (with respect to pin 3 of low impedance output) and the tip of the high impedance 1/4-inch output.

SLX1 Bodypack Transmitter

Audio Input Level

-10 dBV maximum at mic gain position

+10 dBV maximum at 0 dB gain position

+20 dBV maximum at -10 dB gain position

Gain Adjustment Range

30dB

Input Impedance

1 MΩ

RF Transmitter Output

30 mW maximum (dependent on applicable country regulations)

Dimensions

108 mm H x 64 mm W x 19 mm D (4.25 x 2.50 x 0.75 in.)

Weight

81 grams (3 oz.) without batteries

Housing

Molded ABS case

Power Requirements

2 "AA" size alkaline or rechargeable batteries

Battery Life

>8 hours (alkaline)

SLX2 Handheld Transmitter

Audio Input Level

+2 dBV maximum at -10dB position

-8 dBV maximum at 0dB position

Gain Adjustment Range

10dB

RF Transmitter Output

30 mW maximum (dependent on applicable country regulations)

Dimensions (including SM58 cartridge)

254 mm x 51 mm dia. (10 x 2 in.)

Weight

290 grams (10.2 oz.) without batteries

Housing

Molded PC/ABS handle and battery cup

Power Requirements

2 "AA" size alkaline or rechargeable batteries

Battery Life

>8 hours (alkaline)

SLX4 Receiver

Dimensions

42 mm H x 197 mm W x 134 mm D (1.65 x 7.76 x 5.28 in.)

Weight

816 g (1 lb. 13 oz.)

Housing

Galvanized steel

Audio Output Level (ref. +/- 38 kHz deviation with 1 kHz tone)

XLR connector (into 600 Ω load): -13 dBV

1/4 inch connector (into 3000 Ω load): -2 dBV

Output Impedance

XLR connector: 200 Ω

1/4 inch connector: 1kΩ

XLR output

Impedance balanced

Pin 1: Ground

Pin 2: Audio

Pin 3: No signal

Sensitivity

-105 dBm for 12 dB SINAD, typical

Image Rejection

>70 dB, typical

Power Requirements

12–18 Vdc at 150 mA, supplied by external power supply

REPLACEMENT PARTS AND ACCESSORIES

Replacement Parts (all systems)

Microphone Stand Adapter (SLX2)	WA371
Zipper Bag (SLX1)	26A13
Zipper Bag (SLX2)	26A14
Short Rack Bar	53A8571
Long Rack Bar	53A8572
Link Bar	53A8443
Antenna extension cables (2)	95A9023

Replacement Parts (system-specific)

AC Adapter (120 VAC, 60 Hz)	PS20
AC Adapter (230 VAC, 50/60 Hz, Europlug)	PS20E
AC Adapter (230 VAC, 50/60 Hz, UK)	PS20UK
AC Adapter (100 VAC, 50/60 Hz)	PS20J
SM58 Head with Grille (SLX2/SM58)	RPW112
SM86 Head with Grille (SLX2/SM86)	RPW114
BETA 58 Head with Grille SLX2/BETA 58	RPW118
BETA 87A Head with Grille (SLX2/BETA 87A)	RPW120
BETA 87C Head with Grille (SLX2/BETA 87C)	RPW122
Matte Silver Grille (SLX2/SM58)	RK143G
Matte Silver Grille (SLX2/SM86)	RPM266
Matte Silver Grille (SLX2/BETA 58)	RK265G
Matte Silver Grille (SLX2/BETA 87A)	RK312
Matte Silver Grille (SLX2/BETA 87C)	RK312
Belt Clip	44A8030
1/4-Wave Antenna (518–752 MHz)	UA400B
1/4-Wave Antenna (748–865 MHz)	UA400

Optional Accessories

Carrying Case	WA610
Black Grille (SLX2/BETA 58)	RK323G
Black Grille (SLX2/BETA 87A)	RK324G

Antenna Combiners and Accessories

Antennas and receivers must be from the same band.

The supplied 1/4 wave antennas can be used when mounted directly to the UA844. If antennas are remote mounted, 1/2 wave antennas must be used.

Antennas and cables are for use with UA844, and cannot be used with stand-alone SLX receivers.

Passive Antenna/Splitter Combiner Kit (recommended for 2 receivers)	UA221
UHF Antenna Power Distribution Amplifier (recommended for 3 or more receivers)	
U.S.A.	UA844US
Europe	UA844E
UK	UA844UK
1/2 Wave Antenna Remote Mount Kit	UA500
1/2 wave antenna	
H5 Band	UA820H
J3 Band	UA820D
L4 Band	UA820L
P4, Q4 Bands	UA820B
R13, R5, S6, JB Bands	UA820A
25' Antenna Cable	UA825
50' Antenna Cable	UA850
100' Antenna Cable	UA100

SHURE®

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Europe, Middle East, Africa:

Shure Europe GmbH, Phone: 49-7131-72140 Fax: 49-7131-721414

Asia, Pacific:

Shure Asia Limited, Phone: 852-2893-4290 Fax: 852-2893-4055

Crown CM-31W

The CM-31 consists of two parts: the microphone with a permanently attached 30-foot (9.15-m) cable and the cylindrical electronics power module.

The mic cable connects to the power module, which adapts the microphone for phantom powering and includes a low-cut switch. Cable connection is via miniature 3-pin connectors.

The power module output is balanced, low impedance. It is protected against static and radio-frequency interference.

The CM-31 has a smooth, wide-range frequency response for natural reproduction of the singing voice, organ or other musical instruments. Extreme low frequencies are filtered out to reduce pickup of room rumble.

The microphone has a built-in removable hanger which allows easy position adjustment. The CM-31 microphone and cable are black; the CM-31W microphone and cable are white.

Specifications

Type: Unidirectional condenser.

Transducer: Electret condenser.

Frequency Response (typical): 40 Hz to 20,000 Hz (see Fig. 1).

Polar Pattern: Supercardioid (see Fig. 2).

Impedance: 150 ohms, balanced. Recommended minimum load impedance 1000 ohms.

Open Circuit Sensitivity: 10 mV/Pa* (-40 dB re 1 volt/Pa).

Power Sensitivity: -37.5 dB re 1 mW/Pa.

Equivalent Noise Level: 28 dB SPL typical (0 dB = .0002 dyne/cm²), A-weighted.

S/N Ratio: 66 dB at 94 dB SPL.

Maximum Sound Pressure Level: 120 dB SPL produces 3% THD.

Mic-Cable Connector: TA3F (mini XLR-type).

Power Module Connector (input): TB3M (mini XLRtype). See Fig. 3.

Power Module Connector (output): 3-pin male XLRtype.

Power Module Switch: Flat/low-cut.

Operating Voltage: Phantom power, 12 to 48 volts DC, positive voltage on pins 2 and 3 with respect to pin 1 of output connector.

Materials: Brass housing, steel power module housing.

Finish: Black (CM-31) or white (CM-31W).

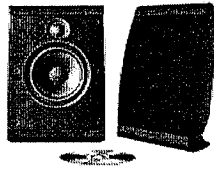
Weight (microphone and cable): 4 ounces (113 grams).

Weight (microphone, cable and power module): 9.5 ounces (269 grams).

Cable: Black (CM-31) or white (CM-31W), 30' (9.15-m) 2-conductor shielded 0.1" (.254-cm) diameter cable from microphone to electronics; none supplied for electronics output. Use 2-conductor shielded microphone cable.

Dimensions: See Fig. 5 on reverse side.

Included Accessories: WS5 black foam windscreen for CM-31, WS5W white foam windscreen for CM-31W.



OWM3

Driver Complements

Mid/Woofer	1 - 4-1/2" Diameter (11.43cm) Polypropylene Cone
Midrange	
Tweeter	1 - 1" Diameter (2.54cm) Silk Dome Dynamic Balance

Electrical

Overall Frequency Response	80-25KHz
Lower -3dB Limit	100Hz dB
Upper -3dB Limit	22KHz dB
Nominal Impedance	8 ohms
Recommended Amplifier Power	20-100 w/channel
Efficiency	89 dB
Crossover	2500 Hz
Inputs	5 way binding posts

Dimensions

Cabinet Size	10" H x 7" W x 4-1/10" D (25.40cm H x 17.78cm W x 10.41cm D)
Mounting Options	7 different options- Angled Wall Mount, Corner Mount, Horizontal Wall Mount, Vertical Wall Mount, Shelf/Flat Surface Mount, Horizontal Shelf Mount, Swivel Wall or Ceiling with optional mount
Enclosure Type	Acoustic Suspension

DVI 201

DVI Twisted Pair Extender

Key Features

- Transmits single link DVI-D/HDMI and RS-232 signals over two CAT 5-type cables
- Sends 720p, 1080i, and XGA (1024x768) signals over 200 feet (60 meters), 1080p/60 and 1920x1200 signals over 100 feet (30 meters) with standard CAT 5e cable
- Extron DTP26 Digital Twisted Pair cable provides added protection from outside interference and increases overall signal transmission distance
- DVI input loop-through
- Supports DDC and HDCP
- Remote powering of transmitter or receiver

VI 201 Tx/Rx

NOTE

**Appropriate DVI-D to HDMI cables or adapters are required for HDMI signal input/output.
Also, an optional Extron HDMI-to-DVI adapter is required in order to transmit a CEC signal.*

Video

Maximum data rate	4.95 Gbps (1.65 Gbps per color)
Maximum pixel clock	165 MHz
Resolution range	1920x1200 or 1080p @ 60 Hz
Formats	RGB and YCbCr digital video
Standards	DVI 1.0, HDMI 1.2

Video input and loop through — transmitters

Number/signal type	1 single link DVI-D (or HDMI*) input 1 single link DVI-D (or HDMI*) local loop-through
Connectors	
DVI 201 Tx	2 female DVI-D

Interconnection between transmitter and receiver

Connectors	2 female RJ-45 per unit for 2 cables connecting the transmitter and receiver
Termination standards	TIA/EIA T568A or T568B

Signal transmission
distance

1920x1200 or 1080p @ 60 Hz

Extron DTP26 cable Up to 150' (45 m)

CAT 5/5e/6 STP Up to 125' (38 m)

CAT 5/5e/6 UTP Up to 100' (30 m)

1024x768 or 720p/1080i @ 60 Hz

CAT 5/5e/6 UTP or Up to 200' (60 m)

STP or Extron DTP26

NOTE *The transmission distance varies greatly depending on the signal resolution and on the type of cable, graphics card, and display used in the system.*

Video output — receivers

Number/signal type	1 single link DVI-D (or HDMI*)
--------------------	--------------------------------

Connectors

DVI 201 Rx	2 female DVI-I
------------	----------------

Control/remote — external device (pass-through)

Serial control port input

Transmitter	RS-232 via (1) 3.5 mm, 3 pole captive screw connector
Receiver	1 set of proprietary signals on a female RJ-45 jack

Serial control port output

Transmitter	1 set of proprietary signals on a female RJ-45 jack
Receiver	RS-232 via a 3.5 mm, 3 pole captive screw connector

NOTE *Protocol is mirrored between the transmitter and the receiver.*

Serial control pin configurations	Captive screw connectors: 1 = TX, 2 = RX, 3 = GND
-----------------------------------	---

General

External power supply	100 VAC to 240 VAC, 50-60 Hz, 6 W max., external; to 12 VDC, 1 A, regulated
Power input requirements	12 VDC, 0.4 A for both transmitter and receiver

NOTE *Each transmitter or receiver can be powered either locally by an external power supply or remotely by receiver*

or transmitter on the other end of the
CAT 5/5e/6 or Extron DTP26 cable.

Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling	Convection, no vents
Mounting	
Rack mount	Yes, with optional 1U rack shelf
Furniture mount	Yes, with optional through-desk mounting kit
Pole mount	Yes, with optional mounting kit
Enclosure type	Metal
Enclosure dimensions	1.0" H x 4.3" W x 3.0" D (quarter rack wide) (2.5 cm H x 10.9 cm W x 7.6 cm D) (Depth excludes connectors.)
Product weight	0.5 lbs (0.3 kg)
Shipping weight	3 lbs (2 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety	CE, c-UL, UL
EMI/EMC	CE**, C-tick, FCC Class A**, ICES, VCCI

NOTE ***CE and FCC testing is conducted
with STP (shielded twisted pair) cable.*

MTBF	30,000 hours
Warranty	3 years parts and labor

NOTE *All nominal levels are at ±10%.*

NOTE *Specifications are subject to change
without notice.*

(7.6-021110-D20)

LG #LD450

Key Features

- Full HD 1080p Resolution
- 100,000:1 Dynamic Contrast Ratio
- Picture Wizard II (Easy Picture Calibration)
- Smart Energy Saving
- AV Mode (Cinema, Sports, Game)
- Clear Voice II
- ISFccc® Ready
- 24P Real Cinema
- USB 2.0 (JPEG/MP3)

LCD TV

37LD450

PANEL SPECIFICATION

Screen Size	37" Class (37.0" diagonal)
Resolution	1920 x 1080p
Brightness (cd/m ²)	TBD
Dynamic Contrast Ratio	100,000:1
Viewing Angle	178°/178°
Response Time (GTG)	4ms
Life Span (Typical)	60,000 hrs

VIDEO

Built-In Tuner	ATSC/NTSC/Clear QAM
XD® Engine	•
Aspect Ratio	16:9
Aspect Ratio Correction	6 Modes
Just Scan (1:1 Pixel Matching)	
HDMI™	1080p/1080i/720p
Component	1080p/1080i/720p
RF	1080i/720p
Color Temperature Control	3 Modes
24p Real Cinema (5:5/2:2 Pulldown)	•
3:2 Pulldown	•
Picture Reset	•
AV Mode II	•
Picture Mode	7 Modes
ISFccc® Ready	•
x.v.Color™	•
DTV Signal Strength Indicator	•

AUDIO

Mono/Stereo/Dual (MTS/SAP)	•
Audio Output Power (Watts - THD 10%)	20W (10W x 2)
Speaker System Details	2 Way 4 Speakers
Dolby® Digital Decoder	•
Surround System	Infinite Sound
Bass/Treble/Balance Controls	•
Clear Voice II	•
Auto Volume Leveler II	•
EZ Sound Mode	5 Modes

SPECIAL FEATURES

Picture Wizard II	•
Backlight Control	•
Smart Energy Saving	•
1080p Source Input	
HDMI™	60p/30p/24p
Component	60p/30p/24p
RGB	60p (WXGA)
A/V Input Navigation	•
Input Labeling	•
Quick View (Flashback)	•
Parental Control w/V-Chip	•
Key Lock	•
Closed Caption	•
SIMPLINK™ (HDMI CEC)	•

CONVENIENCE FEATURES

Language	4 (English/Spanish/French/Korean)
Auto Tuning/Programming	•
Channel Add/Delete	•
Favorite Channel Programming	•
Auto/Manual Clock	•
On/Off Timer	•
Sleep Timer	•
Auto Off/Auto Sleep (When no video is present)	•

AUDIO/VIDEO INPUTS/OUTPUTS

RF In (Antenna/Cable)	1 (rear)
AV In	1 (rear) 1 (side)
Component Video In (Y, Pb, Pr) + Audio	1 (rear)
Digital Audio Out (Optical)	1 (rear)
HDMI™/HDCP Input (V.1.3 w/Deep Color)	1 (rear) 1 (side)
RGB In (D-Sub 15pin) - PC	1 (rear)
PC Audio Input	1 (rear)
RS-232c In (Control/Service)	1 (rear)
USB 2.0 (JPEG, MP3)	1 (side)
Headphone Out	1 (side)

CABINET/ACCESSORIES

Cabinet Color	Glossy Black
Swivel Stand (Degrees)	+20°/-20°
VESA® Compliant (WxH)	• (200mm x 200mm)
Remote Control	1 (Universal)

POWER

Voltage, Hz	100V ~ 240V, 50/60Hz
On Mode (Average)	139W
Standby Mode	>0.1W

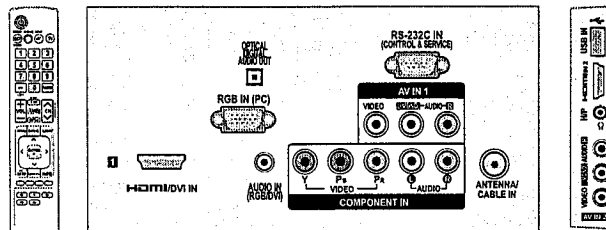
DIMENSIONS & WEIGHT

TV Without Stand (WxHxD)	36.1" x 22.6" x 3.0"
TV With Stand (WxHxD)	36.1" x 24.6" x 10.3"
Shipping Dimensions (WxHxD)	TBD
TV Without Stand Weight	23.8 lbs
TV With Stand Weight	27.6 lbs
Shipping Weight	35.1 lbs

WARRANTY/UPC

Limited Warranty	1 Year Parts & Labor
UPC	719192177277

REMOTE/INPUT/OUTPUTS (REAR/SIDE)



SHURE SCM262 STEREO MICROPHONE MIXER

Frequency Response(Ref 1 kHz, channel and master controls centered)

MIC/LINE Inputs: 150 Hz to 20 kHz +/- 2 dB

AUX Inputs: 20 Hz to 20 kHz +/- 2 dB

Low-Cut Filter (Microphone inputs only)

3dB down at 80 Hz, 6 dB/octave

Total Harmonic Distortion

<0.25% at +4 dBu output level, (through 22 Hz -- 22 kHz filter; MIC Input 1 and Master at center, all other controls full counterclockwise)

Equivalent Input Hum and Noise(150 W source; 22 Hz -- 22 kHz)

125 dBV

Output Hum and Noise (22 Hz -- 22 kHz; channel controls full counterclockwise)

Master full counterclockwise: -85 dBV

Master full clockwise: -60 dBV

Common Mode Rejection

>70 dB at 1 kHz

Polarity

All inputs to all outputs are non-inverting.

Overload and Shorting Protection

Shorting outputs, even for prolonged periods, causes no damage. Microphone inputs are not damaged by signals up to +10 dBV; Line and Aux inputs by signals up to +28 dBV

Equalization

Bass (Low-frequency shelving, corner frequency at 250 Hz): +/- 6 dB

Treble (High-frequency shelving, corner frequency at 4 kHz): +/- 6 dB

Ducking

Mic channels 1 and 2 Levels: -20 dB or infinite dB

Activation time: 10 ms (typical)

Mic Deactivation time: 2 s (typical)

Jukebox Mute Deactivation Time: 30 s (typical)

Phantom Power

12 Vdc open-circuit through 680 ohm resistors

Operating Voltage

SCM262: 100--120 Vac, 50/60 Hz, 60 mA

SCM262E: 220--240 Vac, 50/60 Hz, 30 mA

Temperature Range

Operating: -7 degrees to 49 degrees C (20 degrees to 120 degrees F)

Storage: -29 degrees to 74 degrees C (-20 degrees to 165 degrees F)

Overall Dimensions

43 x 218 x 162 mm (1.72 x 8.60 x 6.37 in.)

Net Weight

1.1 kg (2 lbs, 5 oz)

Specifications — MAV Plus Series

Video — video models

Routing

88 Series	8 x 8 matrix
816 Series	8 x 16 matrix
128 Series	12 x 8 matrix
1212 Series	12 x 12 matrix
168 Series	16 x 8 matrix
1616 Series	16 x 16 matrix
2412 Series	24 x 12 matrix
2424 Series	24 x 24 matrix
3216 Series	32 x 16 matrix
3232 Series	32 x 32 matrix

Gain Unity

Bandwidth..... 150 MHz (-3 dB), fully loaded
0 MHz to 10 MHz..... No more than +0.1 dB to -0.1 dB
0 - 130 MHz No more than +0.1 dB to -0.5 dB

Phase between I/Os

2412/2424/3216/3232 Series	<1.28° at 3.58 MHz
Differential phase error	1.0° at 3.58 MHz and 4.43 MHz
Differential gain error.....	1.0% at 3.58 MHz and 4.43 MHz
Crosstalk.....	-50 dB @ 5 MHz
Switching speed	200 ns (max.)

Video input — video models

Number/signal type

88/816 Series.....	8 RGsB, RsGsBs, HDTV, component video, S-video, composite video
128 Series	12 RGsB, RsGsBs, HDTV, component video, S-video, composite video
168/1616 Series.....	16 RGsB, RsGsBs, HDTV, component video, S-video, composite video
1212 Series composite video models	12 composite video
2412/2424 Series composite video models	24 composite video
2412/2424 Series S-video models	24 S-video, composite video
3216/3232 Series composite video models	32 composite video
3216/3232 Series S-video models	32 S-video, composite video

Connectors

88/816 Series.....	8 x 3 BNC female for RGB/HDTV/component video, 8 x 2 BNC female for S-video, 8 BNC female for composite video
128 Series	12 x 3 BNC female for RGB/HDTV/component video, 12 x 2 BNC female for S-video, 12 BNC female for composite video
168/1616 Series.....	16 x 3 BNC female for RGB/HDTV/component video, 16 x 2 BNC female for S-video, 16 BNC female for composite video
1212 Series composite video models	12 BNC female
2412/2424 Series composite video models	24 BNC female
2412/2424 Series S-video models	24 x 2 BNC female

Specifications — MAV Plus Series, cont'd

3216/3232 Series composite video models	32 BNC female
3216/3232 Series S-video models	32 x 2 BNC female
Nominal level	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels.....	Analog: 0.5 V to 2.0 Vp-p with no offset
Impedance.....	75 ohms
Return loss.....	<-30 dB @ 5 MHz
DC offset (max. allowable).....	1.5 V
External sync (genlock)	0.3 V to 0.4 Vp-p

Video output — video models

Number/signal type	
1212/2412/2424/3216/3232 Series composite video models	12, 16, 24, or 32 composite video
1212/2412/2424/3216/3232 Series S-video models	12, 16, 24, or 32 S-video
All other models.....	8 or 16 RGsB, RsGsBs, HDTV, component video, S-video, composite video (follows input type)
Connectors	
128/168 Series.....	8 x 3 BNC female for RGB/HDTV/component video, 8 x 2 BNC female for S-video, 8 BNC female for composite video
1212/2412 Series composite video models	12 BNC female for composite video
1212/2412 Series S-video models	12 BNC female for composite video <i>or</i> 24 BNC female for S-video
816/1616/3216 Series	16 x 3 BNC female for RGB/HDTV/component video, or 16 x 2 BNC female for S-video, or 16 BNC female for composite video
2424 Series	24 BNC female for composite video <i>or</i> 48 BNC female for S-video
3232 Series	32 BNC female for composite video <i>or</i> 64 BNC female for S-video
Nominal level	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels.....	0.5 V to 2.0 Vp-p (follows input)
Impedance.....	75 ohms
Return loss.....	<-30 dB @ 5 MHz
DC offset.....	±5 mV with input at 0 offset
Switching type.....	Vertical interval

Sync — MAV Plus 88/128/1212/168/816/1616 video models

Genlock connectors.....	1 BNC female
Standards.....	NTSC 3.58, NTSC 4.43, PAL, SECAM

Sync — MAV Plus 2412/2424/3216/3232 video models

Standards.....	NTSC 3.58, NTSC 4.43, PAL, SECAM
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Audio — audio models

Routing

88 Series	8 x 8 stereo matrix
816 Series	8 x 16 stereo matrix
128 Series	12 x 8 stereo matrix
164 Series	16 x 4 stereo matrix
168 Series	16 x 8 stereo matrix
1616 Series	16 x 16 stereo matrix
248 A.....	24 x 8 stereo matrix
2412 Series	24 x 12 stereo matrix
2424 Series	24 x 24 stereo matrix
328 A.....	32 x 8 stereo matrix
3216 Series	32 x 16 stereo matrix
3232 Series	32 x 32 stereo matrix

Gain

MAV Plus 128 AV RCA.....	Unbalanced output: 0 dB
All other models.....	Unbalanced output: -6 dB; balanced output 0 dB

Frequency response	20 Hz to 20 kHz, ± 0.05 dB
THD + Noise	0.03% @ 1 kHz at nominal level
S/N.....	>90 dB, balanced, at maximum output (21 dBu), unweighted
Crosstalk.....	<-80 dB @ 1 kHz, fully loaded
Stereo channel separation	>80 dB @ 1 kHz
CMRR.....	>75 dB @ 20 Hz to 20 kHz

Audio input — audio models

Number/signal type

MAV Plus 128 AV RCA.....	12 stereo, unbalanced
All other models.....	8, 12, 16, 24, or 32 stereo, balanced/unbalanced

Connectors

MAV Plus 128 AV RCA.....	12 pairs of RCA connectors
All other models.....	(8, 12, 16, 24, or 32) 3.5 mm captive screw connectors, 5 pole

Impedance.....	>10k ohm, balanced/unbalanced, DC coupled
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Nominal level

MAV Plus 2412/2424/3216/3232 Series, 328 A, and 248 A	-10 dBV (316 mV)
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All other models.....	0.1 dBu (775 mV)
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Maximum level.....	+19.5 dBu, (balanced or unbalanced) at 1% THD+N
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Input gain adjustment	-18 dB to +24 dB (default = 0 dB), adjustable per input by RS-232/422 or front panel or by Ethernet
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NOTE 0 dBu = 0.775 V_{rms} , 0 dBV = 1 V_{rms} , 0 dBV \approx 2 dBu

Audio output — audio models

Number/signal type

MAV Plus 128 AV RCA.....	8 stereo, unbalanced
All other models.....	4, 8, 12, 16, 24, or 32 stereo, balanced/unbalanced

Connectors

MAV Plus 128 AV RCA.....	8 pairs of RCA connectors
All other models.....	(4, 8, 12, 16, 24, or 32) 3.5 mm captive screw connectors, 5 pole

Impedance.....	50 ohms unbalanced, 100 ohms balanced
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Gain error	± 0.1 dB channel to channel
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Specifications — MAV Plus Series, cont'd

Maximum level (Hi-Z)

MAV Plus 328 A/248 A	Balanced: >+21 dBu at 0.10% THD+N Unbalanced: >+18 at 0.10% THD+N
All other models.....	>+21 dBu, balanced or unbalanced at 0.10% THD+N
Maximum level (600 ohm).....	>+15 dBm, balanced or unbalanced at 0.10% THD+N
Output volume range.....	0 to 64 (-75.8 dB to 0 dB) in 1 dB increments from steps 1 to 64, 12 dB increment from step 0 to 1; default = 64 = 0 dB

Control/remote — switcher

Serial host control port

2412/2424/3216/3232 Series, 328 A, and 248 A	1 RS-232 or RS-422, rear panel 9-pin female D connector
All other models.....	1 bidirectional RS-232 or RS-422, rear panel 9-pin female D connector 1 bidirectional RS-232, front panel 2.5 mm mini stereo jack
Baud rate and protocol.....	9600 (default), 19200, 38400, 115200 baud (adjustable); 8 data bits, 1 stop bit, no parity

Serial control pin configurations

88/816/164/168/1212/1616 Series, 328 A, and 248 A	
RS-232	9-pin female D connector: 2 = Tx, 3 = Rx, 5 = GND Mini stereo jack: tip = Tx, ring = Rx, sleeve = GND
RS-422	2 = Tx-, 3 = Rx-, 5 = GND, 7 = Rx+, 8 = Tx+
2412/2424/3216/3232 Series, 328 A, and 248 A	
RS-232	9-pin female D connector: 2 = Tx, 3 = Rx, 5 = GND
RS-422	1 = Tx+, 2 = Tx-, 3 = Rx+, 4 = Rx-, 5 = Gnd
Ethernet control port.....	1 RJ-45 female connector
Ethernet data rate.....	10/100Base-T, half/full duplex with autodetect
Ethernet protocol.....	ARP, DHCP, ICMP (ping), TCP/IP, Telnet, HTTP, SMTP
Program control.....	Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) Microsoft® Internet Explorer, Telnet

General

Power	100 VAC to 240 VAC, 50-60 Hz, internal
88/128 Series.....	20 watts
816/1212/164/168/1616 Series	30 watts
2412/3216 Series video models	2 (primary and redundant), 100 watts
2424/3232 Series video models	2 (primary and redundant), 120 watts
328 A/248 A	2 (primary and redundant), 48 watts
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +113 °F (0 to +45 °C) / 10% to 90%, noncondensing
Cooling	
MAV Plus 88-1616	Convection, no vents
MAV Plus 2412/2424/3216/3232 Series, 328 A, and 248 A	Fan, right to left (viewed from the front panel)
Mounting.....	Rack mountable
Enclosure type	Metal

Enclosure dimensions.....	(Depth excludes connectors and controls. Width excludes rack ears.)
88/128 Series (all) and 816/1212/164/168/1616 Composite Video Series and/or Stereo Audio Series	3.5" H x 17.0" W x 9.4" D (2U high, full rack wide) 8.9 cm H x 43.2 cm W x 23.9 cm D
816/1212/168/1616 S-video Series with and without audio and 248 A/328 A	5.25" H x 17.0" W x 9.4" D (3U high, full rack wide) 13.3 cm H x 43.2 cm W x 23.9 cm D
816/168/1616 Component Video Series with and without audio	7.0" H x 17.0" W x 9.7" D (4U high, full rack wide) 17.8 cm H x 43.2 cm W x 24.6 cm D
2412/2424/3216/3232 Composite Video Series and S-video Series	8.75" H x 17.0" W x 12.25" D (5U high, full rack wide) 22.2 cm H x 43.2 cm W x 31.1 cm D
3232 S-Video with Audio Series	14.0" H x 17.0" W x 12.25" D (8U high, full rack wide) 35.6 cm H x 43.2 cm W x 31.1 cm D
Product weight/shipping weight	
88/128 Composite Video Series with and without audio (2U enclosures)	8.9 lbs (4.0 kg)/15 lbs (7 kg)
816/1212/164/168/1616 Composite Video Series and Stereo Audio Series (2U enclosures)	9.4 lbs (4.3 kg)/15 lbs (7 kg)
816/1212/168/1616 S-video Series with and without audio, 328 A, and 248 A (3U enclosures)	11.9 lbs (5.4 kg)/18 lbs (9 kg)
816/168/1616 Component Video Series with and without audio (4U enclosures)	14.4 lbs (6.5 kg)/22 lbs (10 kg)
2412 Series	18.4 lbs (8.3 kg)/28 lbs (13 kg)
3216 Series	18.9 lbs (8.6 kg)/28 lbs (13 kg)
2424 Series	19.1 lbs (8.7 kg)/29 lbs (14 kg)
3232 Series	19.8 lbs (9.0 kg)/29 lbs (14 kg)
DIM weight.....	(2U, 3U, and 4U models)
International.....	25 lbs (12 kg)
Vibration.....	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety.....	CE, c-UL, UL
EMI/EMC	CE, C-tick, FCC Class A, ICES, VCCI,
MTBF.....	30,000 hours
Warranty.....	3 years parts and labor

NOTE All nominal levels are at $\pm 10\%$.

NOTE Specifications are subject to change without notice.

7.6-090309-D15

Specifications — DXP DVI Pro Series

NOTE *Appropriate DVI-D to HDMI cables or adapters are required for HDMI signal input/output.

Video

Routing

DXP 44 DVI PRO	4 x 4 matrix
DXP 48 DVI PRO	4 x 8 matrix
DXP 84 DVI PRO	8 x 4 matrix
DXP 88 DVI PRO	8 x 8 matrix

Signal type..... Single-link DVI digital video signals are supported

Digital video RGB digital video (DVI and HDMI standards) or Y, Cr, Cb digital component video (HDMI), actively buffered (supports all single-link DVI and HDMI (if using an optional adapter) standards from 640x480 @ 60 Hz to 1600x1200 @ 60 Hz computer video)

NOTE The DXP DVI Series switchers are compatible with HDMI 1.3.

Digital audio Supports HDMI audio (if using an HDMI to DVI adapter) transmitted through the RGB and Y, Cr, Cb lines, actively buffered.

Consumer Electronics Control (CEC) Supports CEC wired infrared data pass-through using the HDMI 1.3 standard.

EDID and DDC..... Supports Extended Display Identification Data (EDID) and Display Data Channel (DDC) data using DVI and HDMI standards. EDID and DDC signals are actively buffered.

HDCP..... Compliant with High-bandwidth Digital Content Protection (HDCP) using DVI and HDMI 1.3 standards

HPD..... Supports hot plug detection (HPD) of display as a pass-through signal.

Gain..... Unity

Resolution range Up to 1080p (HDTV) or 1920x1200 (the highest resolution of the single-link DVI standard) @ 60 Hz

Maximum data rate..... 6.75 Gbps (2.25 Gbps per color)

Maximum pixel clock 225 MHz

Standards..... DVI 1.0, HDMI 1.3

Switching speed 200 ns, max.

Video input

Number/signal type..... 4 or 8 (depending on model) digital RGB (TMDS) single-link DVI-D (or HDMI*)

Connectors 4 or 8 female DVI-I (digital only)

Nominal level

Digital video 1.2 Vp-p

DDC (Display Data Channel) 5.0 Vp-p (TTL)

Minimum/maximum level..... 0.5 V to 1.0 Vp-p with no offset

Impedance..... 100 ohms

Return loss..... <-15 dB @ 1 MHz to 1.5 GHz

TDR rise time (10%-90%) 75 ps

Equalization..... Automatic

Input cable length >50' (15.24 m) at 1920x1200 @ 48, 50, or 60 Hz; or 1080p

NOTE The transmission distance varies depending on the signal resolution and on the type of cable, graphic card, and display used in the system.

Video output

Number/signal type..... 4 or 8 (depending on model) digital RGB

Connectors 4 or 8 female DVI-I

Specifications — DXP DVI Pro Series, cont'd

Nominal level	1.2 Vp-p
Minimum/maximum level(s)	0.5 V to 1.0 Vp-p with no offset (follows input)
Impedance.....	100 ohms
Return loss.....	<-15 dB @ 1 MHz to 1.5 GHz
DC offset.....	±500 mV maximum with input at 0 offset
Rise and fall time (20-80%)	0.6 ns
Re-clocking.....	Automatic
Peripheral device power	250 mA per output

Control/remote — switcher

Serial control port.....	(1) RS-232, 9-pin female D connector (1) RS-232, front panel 2.5 mm mini stereo jack
Baud rate and protocol.....	9600 to 115200 baud, 9600 baud (default), 8 data bits, 1 stop bit, no parity
Serial control pin configurations	
9-pin D connector.....	2 = Tx, 3 = Rx, 5 = GND
Mini stereo jack.....	Tip = Tx, ring = Rx, sleeve = GND
Ethernet control port.....	(1) RJ-45 female connector
Ethernet data rate.....	10/100Base-T, half/full duplex with autodetect
Ethernet protocol.....	ARP, ICMP (ping), IP, TCP, DHCP, HTTP, Telnet
Default settings.....	Link speed and duplex level = autodetected IP address = 192.168.254.254 Subnet mask = 255.255.0.0 Gateway = 0.0.0.0 DHCP = off
Program control.....	Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) Microsoft® Internet Explorer® ver. 6 or higher, Telnet

General

Power	100 VAC to 240 VAC, 50-60 Hz, 15 watts, internal
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling	Fan, air flows right to left (as viewed from front)
Mounting	
Rack mount.....	Yes, 2U high
Enclosure type	Metal
Enclosure dimensions.....	3.5" H x 17.5" W x 12.0" D (2U high, full rack wide) (8.9 cm H x 44.4 cm W x 30.5 cm D) (Depth excludes connectors. Width excludes integrated rack ears.)
Product weight	10.0 lbs (4.5 kg)
Shipping weight	15 lbs (7 kg)
Vibration.....	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety.....	CE, c-UL, UL
Compliances.....	CE, C-tick, FCC Class A, ICES, VCCI
MTBF.....	30,000 hours
Warranty	3 years parts and labor

NOTE All nominal levels are at ±10%.

NOTE Specifications are subject to change without notice.

7.6-052109-D5

Specifications — DMP 64

Audio

Gain	Unbalanced output: -6 dB; balanced output: 0 dB
Frequency response	20 Hz to 20 kHz, ± 0.1 dB
THD + Noise	<0.01% @ 1 kHz, at maximum output level
S/N	>105 dB, 20 Hz to 20 kHz, at maximum output, unweighted
Crosstalk	<-90 dB @ 1 kHz, fully loaded
CMRR	>70 dB @ 1 kHz

Audio input

Number/signal type	6 mono, mic/line, balanced/unbalanced
Connector	(6) 3.5 mm captive screw connectors, 3 pole
Impedance	>10k ohms unbalanced/balanced
Nominal level	+4 dBu when level is set to 0 dB gain; adjustable from -60 dBu to +4 dBu
Maximum level	+24 dBu, balanced, when input gain is set to -3 dB
Noise level	<-120 dBV (1 μ Vrms) at 40 dB gain
Volume range	-18 dB to +80 dB, mic/line input, adjustable per input
Mic phantom power	+48 VDC, which can be switched on or off

NOTE 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV \approx 2 dBu

Audio processing

D/A conversion	24 bit, 48 kHz sampling
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Audio output

Number/signal type	4 mono, balanced/unbalanced
Connectors	(4) 3.5 mm captive screw connectors, 3 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Gain error	± 0.1 dB channel to channel
Maximum level (Hi-Z)	>+21 dBu balanced, >+15 dBu unbalanced

Control/remote — audio processor

Serial host control port	1 bidirectional RS-232, 3.5 mm captive screw connector, 3 pole
Baud rate and protocol	38400 baud; 8 data bits, 1 stop bit, no parity
Serial control pin configuration ..	Pin 1 = TX, 2 = RX, 3 = GND
USB control ports	1 front panel female mini USB B
USB standards	USB 2.0, low speed
Ethernet host port	1 RJ-45 female
Ethernet data rate	10/100Base-T, half/full duplex with autodetect
Ethernet default settings	Link speed and duplex level = autodetected IP address = 192.168.254.254 Subnet mask = 255.255.0.0 Default gateway = 0.0.0.0 DHCP = off
Web server	Up to 200 simultaneous sessions 6.5 MB nonvolatile user memory
Program control	Extron control/configuration program for Windows® Extron Simple Instruction Set (SIS™) Microsoft® Internet Explorer®, Telnet

General

External power supply	100 VAC to 240 VAC, 50-60 Hz, to +12 VDC, 2 A, regulated
Power input requirements	+12 VDC, 1.5 A
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling	Convection, no vents

Specifications — DMP 64, cont'd

Mounting	
Rack mount.....	Yes, with optional 1U rack shelf
Furniture mount.....	Yes, with optional under-desk mounting kit
Enclosure type	Metal
Enclosure dimensions.....	1.7" H x 8.75" W x 9.5" D (1U high, half rack wide) (4.3 cm H x 22.2 cm W x 24.1 cm D) (Depth excludes connectors.)
Product weight	1.9 lbs (0.9 kg)
Shipping weight	4 lbs (2 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety.....	CE, c-UL, UL
EMI/EMC	CE, C-tick, FCC Class B, ICES, VCCI
Environmental	Complies with the appropriate requirements of RoHS, WEEE
MTBF.....	30,000 hours
Warranty	3 years parts and labor

NOTE All nominal levels are at $\pm 10\%$

NOTE Specifications are subject to change without notice.

7.6-111709-D3

Specifications — DVI DA2, DVI DA4

NOTE *Appropriate DVI-D to HDMI cables or adapters are required for HDMI signal input/output.

Video

Maximum bit rate.....	4.95 Gbps (1.65 Gbps per color)
Maximum pixel clock	165 MHz
Resolution range	Up to 1920x1200 or 1080p @ 60 Hz
Formats	RGB and YCbCr digital video
Standards.....	DVI 1.0, HDMI 1.2

Video input

Number/signal type.....	1 single link DVI-D (or HDMI*)
Connectors	1 female DVI-I

Video output

Number/signal type	
DVI DA2.....	2 single link DVI-D (or HDMI*): 1 main, 1 local

NOTE Local output is used for DDC communications and hot plug detection.

DVI DA4.....	4 single link DVI-D (or HDMI*)
Connectors	2 or 4 female DVI-I (depending on model)

General

External power supply	100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A, regulated
Power input requirements	12 VDC, 0.4 A
Temperature/humidity.....	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling	Convection, no vents
Mounting	
Rack mount	Yes, with optional rack shelf kit
Furniture mount.....	Yes, with optional under-desk mounting kit
Enclosure type	Metal
Enclosure dimensions.....	1.75" H x 8.75" W x 3.0" D (1U high, half rack wide) (4.4 cm H x 22.2 cm W x 7.6 cm D) (Depth excludes connectors.)
Product weight	2.8 lbs (1.3 kg)
Shipping weight	5 lbs (3 kg)
Vibration.....	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety.....	CE, CUL, UL
EMI/EMC	CE, C-tick, FCC Class A, ICES, VCCI
MTBF.....	30,000 hours
Warranty.....	3 years parts and labor

NOTE All nominal levels are at $\pm 10\%$.

NOTE Specifications are subject to change without notice.

7.6-030409-D9

KRAMER KR-105A

INPUT:	1 audio stereo/balanced mono, 1V _{pp} /33k Ω on a 3.5mm mini jack connector.
OUTPUTS:	5 audio stereo/balanced mono 1V _{pp} /50 Ω on 3.5-mm mini jack connectors.
MAX. OUTPUT:	5V _{pp} (> +4dBu).
AUDIO BANDWIDTH (-3dB):	20kHz.
S/N RATIO:	80dB unweighted.
CONTROL:	Left and right gain rear trimmers (0/+3.5dB range).
COUPLING:	AC.
THD:	0.03% (2nd harmonic).
POWER SOURCE:	12V DC, 100mA.
DIMENSIONS:	12cm x 7.5cm x 2.5cm (4.7" x 2.95" x 0.98") W, D, H.
WEIGHT:	0.28kg (0.62lbs) approx.
ACCESSORIES:	Power supply, mounting bracket.
OPTIONS:	RK-3T 19" rack adapters.